

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1-8. (canceled)

9. (new) A laser processing machine for processing workpieces using a laser beam, the laser processing machine comprising:

a telescope for widening and focusing a laser beam, the telescope comprising:

an ellipsoidal mirror having a first axis of rotation and a first surface that lies on an ellipse having two foci; and

a paraboloidal mirror having a second axis of rotation that is parallel to the first axis of rotation and a second surface that lies on a parabola having a focus that coincides with one of the foci of the ellipse; and

a mirror positioned to adjust an optical axis of a laser beam entering the telescope parallel to an optical axis of a laser beam exiting the telescope.

10. (new) The laser processing machine of claim 9, wherein the second axis of rotation is collinear with the first axis of rotation.

11. (new) The laser processing machine of claim 9, wherein the telescope is adapted for movement parallel to the optical axis of the laser beam that enters the telescope without altering an alignment of the laser beam entering the telescope.

12. (new) The laser processing machine of claim 9, wherein the ellipsoidal mirror and the paraboloidal mirror are fixed in position relative to each other.

13. (new) The laser processing machine according to claim 12, further comprising a common carrier element upon which the ellipsoidal mirror and the paraboloidal mirror are mounted in a fixed relationship to each other.

14. (new) The laser processing machine of claim 9, wherein the mirror positioned to adjust an optical axis of a laser beam entering the telescope is a planar mirror.

15. (new) A telescope for widening and focusing a laser beam, the telescope comprising:

an ellipsoidal mirror having a first axis of rotation and a first surface that lies on an ellipse having two foci;

a paraboloidal mirror having a second axis of rotation that is parallel to the first axis of rotation and a second surface that lies on a parabola having a focus that coincides with one of the foci of the ellipse; and

a mirror positioned to adjust an optical axis of a laser beam entering the telescope parallel to an optical axis of a laser beam exiting the telescope.

16. (new) A telescope of claim 15, wherein the second axis of rotation is collinear with the first axis of rotation.

17. (new) A telescope of claim 15, wherein the telescope is adapted for movement parallel to the optical axis of the laser beam that enters the telescope without altering an alignment of the laser beam entering the telescope.

18. (new) A telescope of claim 15, wherein the ellipsoidal mirror and the paraboloidal mirror are fixed in position relative to each other.

19. (new) A telescope of claim 18, further comprising a common carrier element upon which the ellipsoidal mirror and the paraboloidal mirror are mounted in a fixed relationship to each other.

20. (new) A telescope of claim 15, wherein the mirror positioned to adjust an optical axis of a laser beam entering the telescope is a planar mirror.

Applicant : Thomas Zeller et al.  
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Page : 6 of 19

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Amendments to the Drawings:

The attached replacement sheets of drawings includes changes to Figs. 1-5 and replaces the original sheets including Figs. 1-5.

In Figures 1-4, reference numeral "13" has been added. In Figures 1-5, the formatting of the titles of the figures has been changed.

Attachments following last page of this Amendment:

Replacement Sheet (5 pages)

REMARKS

The specification and Figures 1-5 have been amended.

Claims 1-8 have been cancelled, and claims 9-20 have been added.

No new matter has been added.

Applicant asks that all claims be examined in view of the amendment to the claims.

No fees are believed to be due at this time. Please apply any other charges or credits to deposit account 06-1050, referencing Attorney Docket No. 15540-037US1.

Respectfully submitted,

Date: \_\_\_\_\_

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